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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/068,718
Filing Date	February 6, 2002
First Named Inventor	David K. Mesecher
Art Unit	2637
Examiner Name	Temesghen Ghebretinsae
Attorney Docket Number	I-2-0108.3US

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Total Number of Pages in This Submission

### ENCLOSURES (Check all that apply)

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<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
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### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Jeffrey M. Glabicki	Reg. No. 42,584
Signature	<i>Jeffrey M. Glabicki</i>	
Date	November 22, 2004	

### CERTIFICATE OF TRANSMISSION/MAILING

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Typed or printed name	Jeffrey M. Glabicki
Signature	<i>Jeffrey M. Glabicki</i>
Date	November 22, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In the **PATENT APPLICATION** of:

David K. Mesecher

**Application No.:** 10/068,718

**Confirmation No.:** 2637

**Filed:** February 6, 2002

For: BASE STATION FOR USE IN A CDMA  
COMMUNICATION SYSTEM USING AN  
ANTENNA ARRAY

**Group:** 2637

**Examiner:** Temesghen Ghebretinsae

**Our File:** I-2-0108.3US

**Date:** November 22, 2004

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Further to Applicant's Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicant wishes to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form. Newly cited documents are indicated by an asterisk (\*). Copies of the newly cited non-U.S. patent documents are enclosed.

Pursuant to amended 37 C.F.R. §1.98(a)(2)(i), copies of the cited U.S. patent documents have not been included. Copies of all other newly cited references are enclosed.

**Applicant:** David K. Mesecher  
**Application No.:** 10/068,718

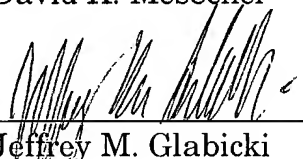
Pursuant to 37 C.F.R. § 1.97(e)(1), the undersigned certifies that each newly cited item of information indicated by a double asterisk (\*\*) contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, copy enclosed, and that this communication was not received by any individual designated in §1.56(c) more than three (3) months prior to the filing of the information disclosure statement.

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his consideration of the cited materials.

Respectfully submitted,

David K. Mesecher

By

  
Jeffrey M. Glabicki  
Registration No. 42,584  
(215) 568-6400

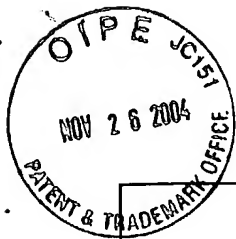
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FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)				ATTY. DOCKET NO. I-2-0108.3US		SERIAL NO. 10/068,718	
				APPLICANT David K. Mesecher			
				FILING DATE February 6, 2002		RECEIVED GROUP NOV 26 2004 Technology Center 2000	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		3,662,268	05/1972	Gans et al.			
		4,736,460	04/1988	Rilling			
		4,901,307	02/1990	Gilhousen et al.			
	*	5,146,475	09/1992	Kubo			
	*	5,319,677	06/1994	Kim			
	*	5,331,666	07/1994	Dent			
	*	5,381,443	01/1995	Borth et al.			
	*	5,457,704	10/1995	Hoehner et al.			
	*	5,493,563	02/1996	Rozanski et al.			
	*	5,623,511	04/1997	Bar-David et al.			
		5,652,764	07/1997	Kanzaki et al.			
	*	5,673,294	09/1997	Namekata			
	*	5,680,419	10/1997	Bottomley			
		5,694,388	12/1997	Sawahashi et al.			
		5,809,020	09/1998	Bruckert et al.			
		5,812,542	09/1998	Bruckert et al.			
	*	5,822,380	10/1998	Bottomley			
		5,822,701	10/1998	Tomisato et al.			
		5,886,987	03/1999	Yoshida et al.			
	*	5,903,834	05/1999	Wallstedt et al.			
		5,952,968	09/1999	McDowell			
		5,982,327	11/1999	Vook et al.			
		5,991,332	11/1999	Lomp et al.			
		6,009,074	12.19/99	Kim et al.			
	*	6,026,130	02/2000	Rahmatullah et al.			
		6,044,120	03/2000	Bar-David et al.			
EXAMINER				DATE CONSIDERED			

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	APPLICANT David K. Mesecher	
	FILING DATE February 6, 2002	GROUP 2637

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,067,324	05/2000	Harrison			
	*	6,081,566	06/2000	Molnar et al.			
	*	6,108,517	08/2000	Arslan et al.			
		6,147,985	11/2000	Bar-David et al.			
	*	6,148,041	11/2000	Dent			
		6,154,443	11/2000	Huang et al.			
	*	6,160,801	12/2000	Uchida et al.			
	*	6,161,209	12/2000	Moher			
	*	6,215,762	04/2001	Dent			
	*	6,335,954	01/2002	Bottomley et al.			
		6,459,740	10/2002	Lo			
	*	6,470,047	10/2002	Kleinerman et al.			
	*	6,470,192	10/2002	Karlsson et al.			
	*	6,483,866	11/2002	Suzuki			
	*	6,484,285	11/2002	Dent			
	*	6,501,788	12/2002	Wang et al.			
	*	6,501,803	12/2002	Alamouti et al.			
	*	6,556,634	04/2003	Dent			
	*	6,647,070	11/2003	Shalvi et al.			
	*	6,694,154	02/2004	Molnar et al.			
	*	6,697,441	02/2004	Bottomley et al.			
	*	6,731,700	05/2004	Yakhnich et al.			

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	APPLICANT David K. Mesecher	
	FILING DATE February 6, 2002	GROUP 2637

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	*	2001/0030993	10/2001	Bottomely et al.			
	*	2002/003846	01/2002	Khayrallah et al.			
	*	2002/0122510	05/2002	Yakhnich et al.			
	*	2002/0181430	12/2002	Thomas et al.			
	*	2002/150187	10/2002	Chugg et al.			
	*	2002/154704	10/2002	Reshef			
	*	2003/0013468	01/2003	Khatri			
	*	2003/0053524	03/2003	Dent			
	*	2003/0058929	03/2003	Cox et al.			
	*	2003/0092456	05/2003	Dent			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	*	0 674 455	10/1994	EP				
	*	0 715 421	06/1996	EP				
		07 55 127 A2	01/1997	EP				
	**	0 820 157 A	01/1998	EP				
		08 81 781 A2	12/1998	EP				
	*	0 892 508	01/1999	EP				
		08 99 894 A2	03/1999	EP				
		22 80 575 A	02/1995	GB				

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	APPLICANT David K. Mesecher	
	FILING DATE February 6, 2002	GROUP 2637

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	*	94/01956	01/1994	WO				
	*	95/34140	12/1995	WO				
	*	96/11533	04/1996	WO				
	*	97/13386	04/1997	WO				
	*	99/04537	01/1999	WO				
	*	99/12283	03/1999	WO				
	*	99/52311	10/1999	WO				
	*	00/35159	06/2000	WO				
	*	00/44141	07/2000	WO				
	*	00/48330	08/2000	WO				
	*	00/69192	11/2000	WO				
	*	01/05088	01/2001	WO				
	*	01/28174	04/2001	WO				
	*	01/45289	06/2001	WO				
	*	02/09297	01/2002	WO				
	*	02/23787	03/2002	WO				
	*	02/065719	08/2002	WO				
	*	02/067444	08/2002	WO				
	*	02/084892	10/2002	WO				
	*	03/003604	01/2003	WO				
	*	03/010899	02/2003	WO				
	*	04/012341	02/2004	WO				

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		APPLICANT David K. Mesecher	
		FILING DATE February 6, 2002	GROUP 2637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
		Pahlavan et al., "Performance of Adaptive Matched Filter Receivers Over Fading Multipath Channels," IEEE Transactions on Communications, Vol. 38, No. 12, December 1990, pp. 2106-2113.	
		Latva-aho et al., "LMMSE Detection for DS-CDMA Systems in Fading Channels," IEEE Transactions on Communications, Vol. 48, No. 2, February 2000, 194-199.	
		Majmundar et al., "Adaptive Single-User Receivers for Direct-Sequence Spread-Spectrum CDMA Systems," IEEE Transactions on Vehicular Technology, Vol. 49, No. 2, March 2000, pp. 379-389.	
		Foerster et al., "Coding for a Coherent DS-CDMA System Employing an MMSE Receiver in a Rayleigh Fading Channel," IEEE Transactions on Communications, Vol. 48, No. 6, June 2000, pp. 1012-1021.	

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